



# Missouri Occupation Brief

## Computer Programming Languages

April 2020

### Knowing the Code

**Information Technology** occupations are some of the most in-demand occupations in Missouri. Computer programming, developing, and support occupations employed more than 88,000 people with an average wage of \$78,420 in 2018 (2018 Occupational Employment Statistics estimates). Employment in **Information Technology** occupations is projected to grow 18.37 percent from 2016-2026 (MERIC Long-Term Employment Projections).

From March 1, 2019 - Feb. 29, 2020 there were over 54,000 online job ads for selected IT occupations (Burning Glass Technologies). Programming skills are highly valued in these occupations. The majority of job ads for these occupations request applicants are proficient in various computer-programming languages. Top requested programming languages include SQL, Java, and JavaScript, most commonly found in job ads for *Applications Software Developers* and *Database Administrator*.

Top 20 Requested Programming Languages in Computer Occupations		
Skill	Language Type	Online Job Ads
SQL	Database Language	13,156
Java	Programming Language	10,341
JavaScript	Programming Language	6,519
Oracle	Database Language	6,052
Python	Programming Language	5,225
Linux	Other - Operating Systems	5,022
C#	Programming Language	4,467
SQL Server	Database Language	3,748
Git	Programming Language	3,614
UNIX	Other - Operating Systems	3,498
SAP	Other - Enterprise	2,967
Extensible Markup Language (XML)	Other - Markup Language	2,862
Atlassian JIRA	Programming Language	2,776
JavaScript Object Notation (JSON)	Programming Language	2,138
AngularJS	Other - Markup Language	2,092
C++	Programming Language	1,968
Microsoft PowerShell	Other - Operating Systems	1,892
jQuery	Programming Language	1,887
VMware	Other - Operating Systems	1,835
HTML5	Other - Markup Language	1700

Source: Labor Insight Burning Glass, online job ads Mar. 01, 2019 - Feb. 29, 2020

## Who's Hiring?

Top Industries			Top Employers
NAICS code	NAICS Title	Online Job Ads	
541	Professional, Scientific, and Technical Services	6,749	The Boeing Company
522	Credit Intermediation and Related Activities	2,153	Deloitte
336	Transportation Equipment Manufacturing	1,765	Centene Corporation
524	Insurance Carriers and Related Activities	1,684	Wells Fargo
622	Hospitals	1,116	Enterprise Rent-A-Car
561	Administrative and Support Services	1,045	MasterCard Worldwide
611	Educational Services	909	Technology Partners
511	Publishing Industries (except Internet)	806	Jack Henry & Associates
523	Securities, Commodity Contracts, & Other Financial Investments	759	U.S. Bancorp
928	National Security and International Affairs	620	Cerner Corporation

Source: Labor Insight Burning Glass, online job ads Mar. 01, 2019 - Feb. 29, 2020

Industries with the most job postings for Information Technology occupations included *Professional, Scientific, and Technical Services* and *Credit Intermediation and Related Activities*. The top employer was Boeing, followed by Deloitte and Centene.

## Skill Profiles

**SQL (Structured Query Language)** -- is a domain-specific language used in programming and designed for managing data held in a relational database management system (RDBMS), or for stream processing in a relational data stream management system (RDSMS). **SQL** is most commonly requested in job ads for *Applications Software Developers*, *Database Administrators*, and *Business Intelligence Analysts*. Employers requesting **SQL** in online job ads include Centene Corporation, Wells Fargo, and Enterprise Rent-A-Car.

**SAP (Systems, Applications & Products in Data Processing)** -- is an enterprise software used to manage business operations and customer relations. **SAP** is most commonly requested in job ads for *Business Intelligence Analysts*, *Applications Software Developer*, and *Computer Systems Analysts*. Employers requesting **SAP** in online job ads include Deloitte, Boeing, and National Geospatial Intelligence Agency.

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